

IN THE ABSTRACT:

Please replace the original page 12 with the accompanying replacement page 12, which includes the following rewritten paragraph beginning at page 12, line 2:

1 An auto-ranging electricity meter circuit having multiple current signal
2 paths. Each of the current signal paths are amplified by a different amount of
3 gain, and then applied to an ADC. The ADC then converts each of the amplified
4 signals at different gains in a continuous process. The system analyzes the
5 different sets of samples to determine which is the most accurate to use.
6 Advantages ~~of an embodiment of the present invention~~ include improved
7 accuracy of an electricity meter using a lower cost A/D converter.

ABSTRACT

An auto-ranging electricity meter circuit having multiple current signal paths. Each of the current signal paths are amplified by a different amount of gain, and then applied to an ADC. The ADC then converts each of the amplified signals at different gains in a continuous process. The system analyzes the different sets of samples to determine which is the most accurate to use. Advantages include improved accuracy of an electricity meter using a lower cost A/D converter.